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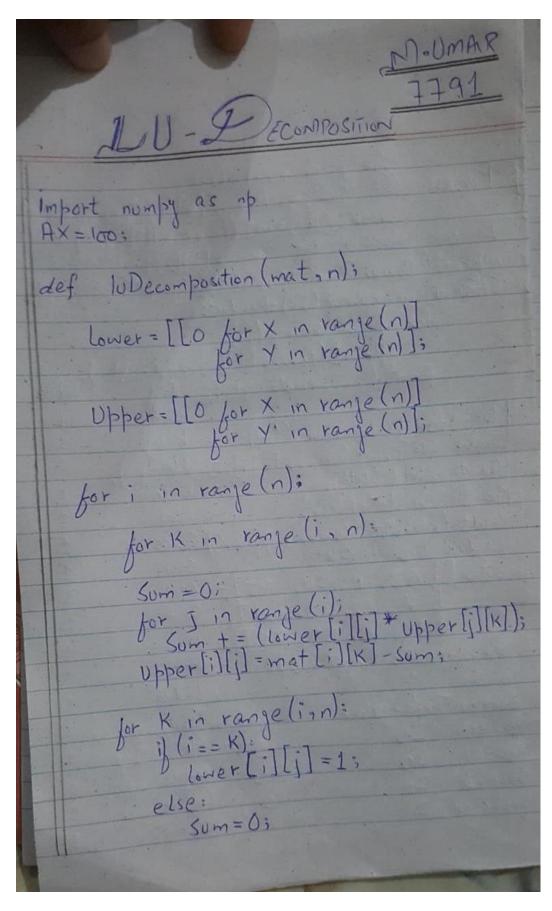
LAB 09

LU DECOMPOSITION

S#	Functions	Tolera	No. of	Root		
	1 0.110 0.10	nce	Iteratio		•	
			ns			
1				Upper Triangular Matrix:		
	83x + 11y - 4z = 95			[83	11	-4]
	7x + 52y + 13z = 104			[0	51.12	13.32]
				[0	0	27.162]
				Lower Triangular Matrix		
	3x + 8y + 29z = 71			[1	0	0]
				[0.08	1	0]
				[0.04	0.15	1]
2				Upper Triangular Matrix:		
	8x - 3y + 2z = 45			[8	-3 12.5	2]
	4x + 11y – z =71			[0 [0	0	-2] 11.34]
				Lower Triangular Matrix		
	6x + 3y + 12z = 35			[1	0	0]
				[0.5	1	0]
				[0.75	0.42	1]

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for i in range (i): Som += (lower [k][i] * upper [i][i]); lower [k][i] = int ((mat [k][i] - som)/ opper [i][i]; Print ("lower Triangular (t) t upper Triangular); for i in range (n): for j in range (n):
for j in range (n): Print (' ', end = '\t'); for j in range (n): Print (upper [i][j], end = "\t"); Print (" '); Print (" '); Print ('\n L*U\n') Print (np-dot (lower, opper))
mat=[[83, 11, -4, 95], [7, 52; 13; 104], [3, 8, 29, 71]; 10 Decomposition (mat, 3);
Lower Triangelar Upper Iriangular. 1 0 0 83 11 -4 1 0 0 52 13 0 1 0 0 29

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